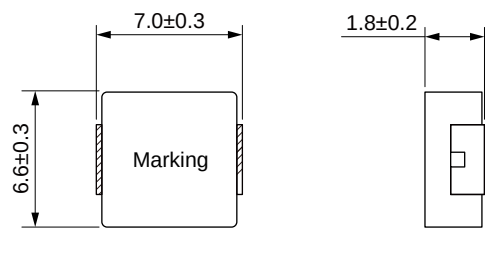


SMD Power Inductor
Size 6020

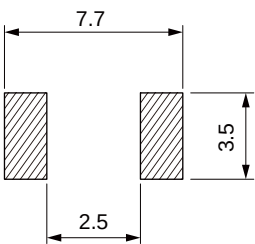


- Shielded construction.
 - Capable of corresponding high frequency.
 - Low loss realized with low DCR.
 - High performance (Isat) realized by Carbonyl Powder.
 - Ultra low buzz noise, due to composite construction.
 - 100% Lead(Pb)-Free and RoHS compliant.
 - AEC-Q200 qualified.
 - Operating temperature: -55 to +125 °C(including self-temperature rise)
 - Quantity: 1500pcs.
-
- Headlamps, tail lamps and interior lighting.
 - HVAC.
 - Doors, window lift and seat control.
 - Audio subsystem.
 - Digital instrument cluster.
 - In-Vehicle Infotainment and navigation.

Dimensions: [mm]



Land Pattern: [mm]

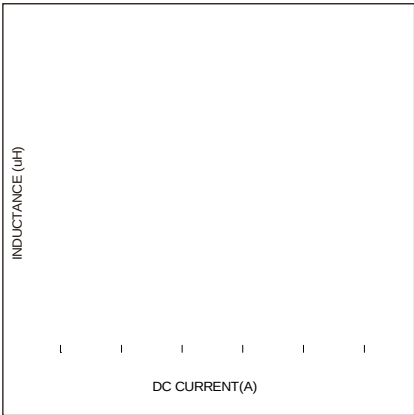


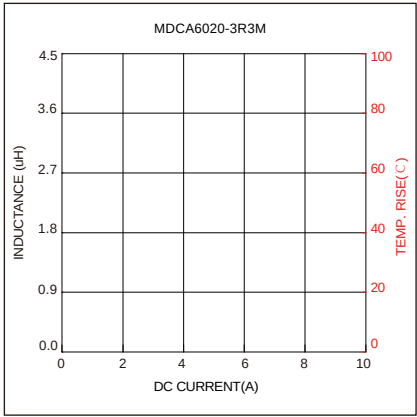
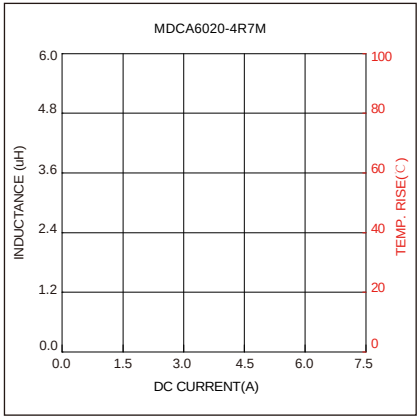
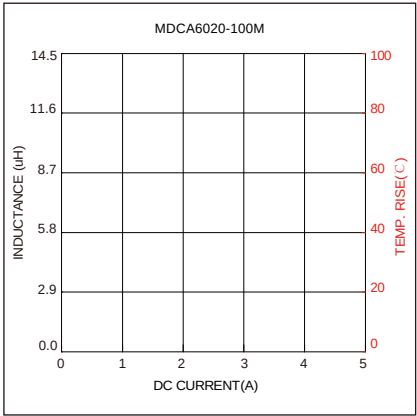
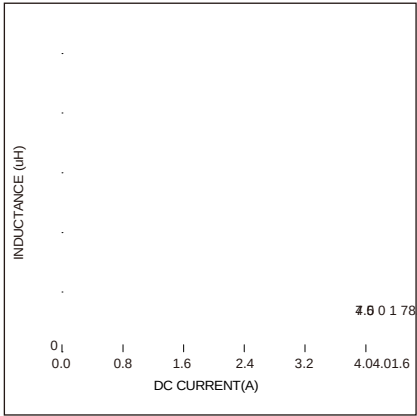
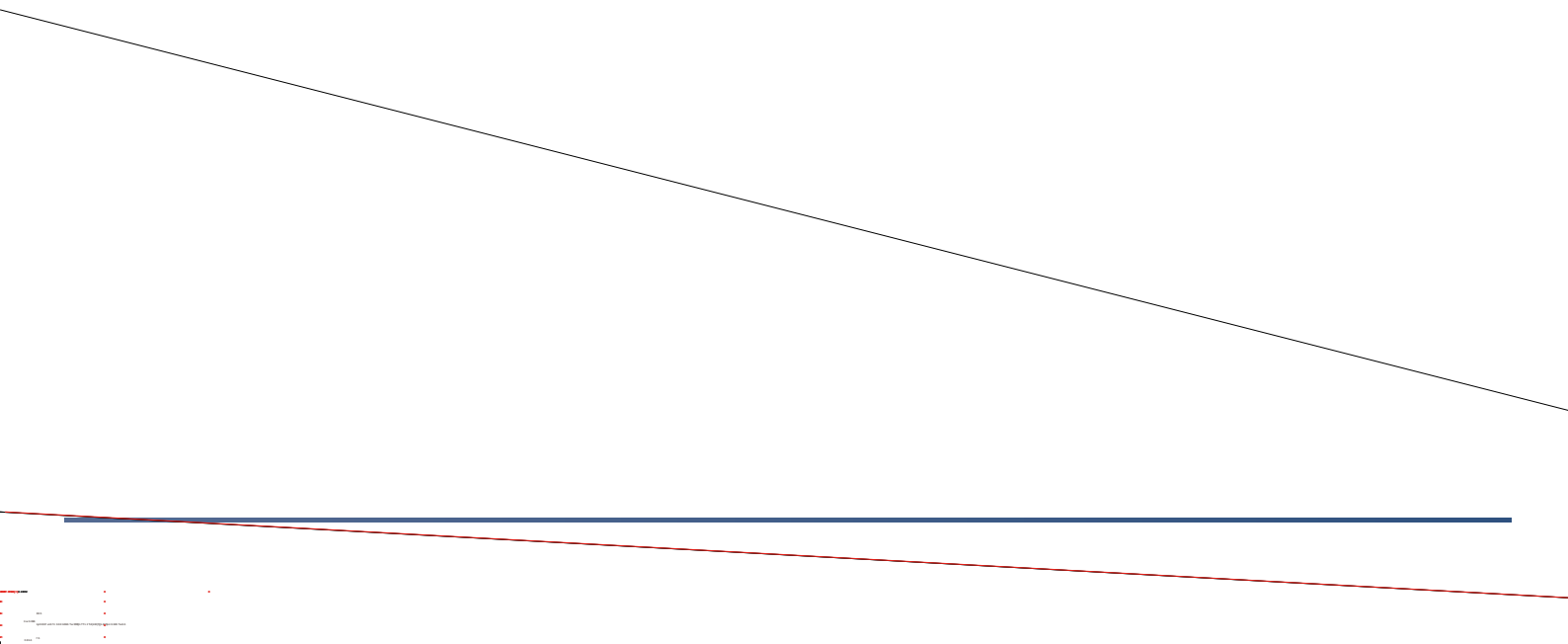
Electrical Properties:

Temperature Rise Current (A)	Current (A)		
21.0		2.0	2.4
18.0		2.3	2.7
15.0	K	3.5	4.0
14.0	K	4.5	5.0
11.7	K	7.1	8.3
11.0	K	7.9	9.3
10.5	K	8.3	10.0
8.0	K	16.5	18.0
7.0	K	23.0	27.0
6.0	K	32.0	37.0

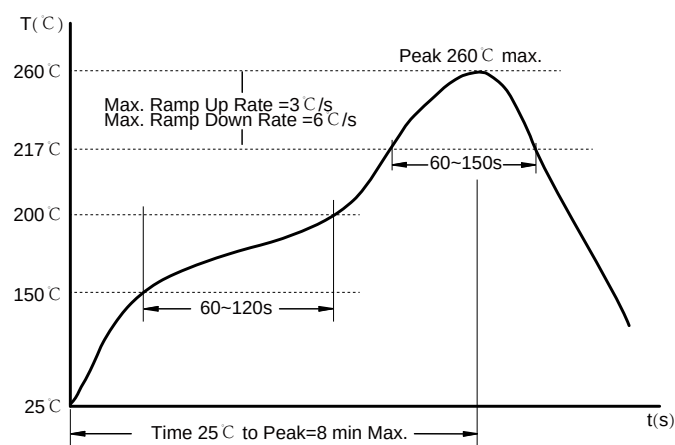


Part No	Inductance @ 100KHz/1V	Tolerance				
MDCA6020-100M	10.0	±20%	2.8	4.0	134	154
MDCA6020-150M	15.0	±20%	2.1	3.3	190	210
MDCA6020-220M	22.0	±20%	1.5	2.5	236	280





Soldering Reflow:

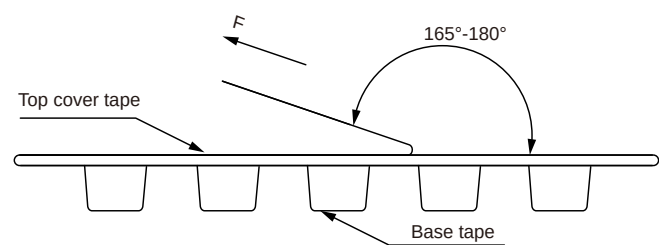


Preheat condition: 150 ~200℃ / 60~120 sec.
Allowed time above 217℃ : 60~150 sec.
Max temperature: 260℃ .
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension :

Peel force of top cover tape:

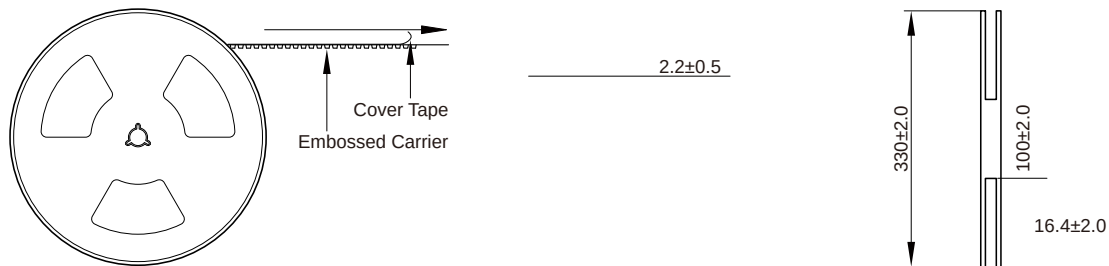


The peel force of top cover tape shall be between 0.1 to 1.3 N

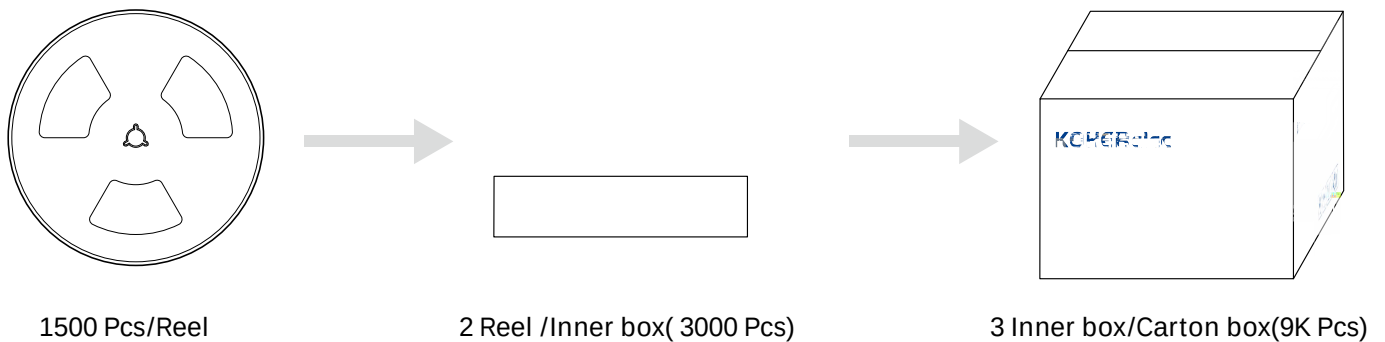
Product Marking:

Marking	Printing Inductance+period)
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Reel Dimension: [mm]



Packaging Quantity:



Cautions and Warnings:

Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does. As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.